



PATENT  
U.S. Application No.: 10/614,859  
Attorney Docket No. 29284/598

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

APPLICANT : Yasuo INOUE  
SERIAL NO. : 10/614,859  
FILED : 9 July 2003  
FOR : EXTERNAL STORAGE SUBSYSTEM  
GROUP: 2182  
EXAMINER: Alan S. CHEN

COMMISSIONER FOR PATENTS  
P. O. Box 1450  
Alexandria, Virginia 22313-1450

**REQUEST FOR CONSIDERATION OF  
PREVIOUSLY DISCLOSED INFORMATION**

SIR:

On July 9, 2003, Applicant filed an Information Disclosure Statement citing, *inter alia*, three foreign language references, including a journal reference. A Final Office Action was mailed in this application dated March 15, 2005. The Office Action indicates that the Information Disclosure Statement filed on July 9, 2003 failed to comply with 37 CFR 1.98(a)(2) because it does not include legible copies of each U.S. and foreign patent, and that US patent documents were considered, but other documents were not considered.

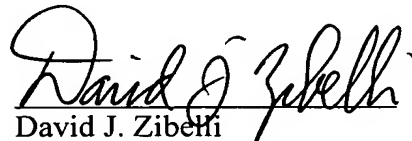
However, all of the documents listed on the IDS were of record in parent application 09/819,636, from which this application claims priority. Accordingly, no copies of these references need be submitted, and it is requested that these references be considered by the Examiner.

The following documents were not considered: 1) JP-63-225848; 2) EP-0-445-479;

and 3) "A Multiport Page-Memory Architecture and a Multiport Disk-Cache System, New Generation Computing 1 (1984) 241-260, Ohmsha, Ltd. And Springer-Verlag. It is requested that the Examiner return to Applicant an initialed copy of the attached PTO 1449 form so that the references will be listed on the face of the patent.

Should there be any questions concerning this matter, the Examiner is invited to contact Applicant's undersigned attorney.

Respectfully submitted,

  
David J. Zibelli  
Reg. No. 36,394

Dated: June 15, 2005

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PTO/SB/08b(08-03)  
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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 1

**Complete if Known**

Application Number	10/614,859
Filing Date	July 9, 2003
First Named Inventor	Yasuo INOUE
Art Unit	2182
Examiner Name	Alan S. CHEN
Attorney Docket Number	29284/598

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>2</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
		JP-63-225848	09-20-1988	Carteau et al.		Translation
		EP-0-445-479	07-26-1995	Bull Sa		Abstract

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		Partial Translation of Japanese Office Action No. 3-322965 dated April 1, 2003 and Japanese Office Action No. 3-322965 of April 1, 2003	
		A Multiport Page-Memory Architecture and a Multiport Disk-Cache System, New Generation Computing 2 (1984) 241-260, Ohmsha, Ltd. and Springer-Verlag	

Examiner  
Signature

Date  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of: Yasuo INOUE  
Group Art Unit: 2182  
Application No.: 10/614,859  
Examiner: Alan CHEN  
Filed: July 9, 2003  
Docket No.: 29284/598  
For: EXTERNAL STORAGE SUBSYSTEM

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 CFR § 1.56, the attention of the Patent and Trademark Office is hereby directed to the reference(s) listed on the attached PTO-1449. Unless otherwise indicated herein, one copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the reference(s) be made of record therein and appear among the "References Cited" on any patent to issue therefrom. The filing of this Information Disclosure Statement and the enclosed PTO Form No. 1449, shall not be construed as an admission that the information cited is prior art, or is considered to be material to patentability as defined in 37 C.F.R. § 1.56(b). The paragraphs marked below are applicable. It is believed that no fees other than those indicated below are due, but authorization is hereby given to charge any additional fees due, or to credit any overpayment, to deposit account 11-0600.

☐ 1. This Information Disclosure Statement is being filed (a) within three months of the filing date of a national application other than a continued prosecution application under 37 C.F.R. §1.53(d), (b) within three months of the date of entry of the national stage as set forth in 37 C.F.R. § 1.491 in an international application, (c) before the mailing date of a first Office Action on the merits in the present application, OR (d) before the mailing of a first office action after filing of a request for continued examination. No certification or fee is required.

☐ 2. This Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date of the first Office Action on the merits, but before the mailing date of a final action, Notice of Allowance, or any action that otherwise closes prosecution.

☐ a. I hereby certify that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 CFR §1.97(e)(1).

☐ b. I hereby certify that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 CFR §1.97(e)(2).

☐ c. Please debit Deposit Account No. 11-0600 in the amount of \$180.00 in payment of the fee under 37 CFR §1.17(p) to ensure consideration of the disclosed information. Two duplicate copies of this paper are attached. 37 CFR §1.97(c)(2).

☒ 3. This Information Disclosure Statement is being filed after the mailing date of a final action, Notice of Allowance or an action that otherwise closes prosecution, but before payment of the Issue Fee. Applicant(s) hereby request(s) that the Information Disclosure Statement be considered. Please debit Deposit Account No. 11-0600 in the amount of \$180.00 in payment of the petition fee under 37 CFR §1.17(p) to ensure consideration of the disclosed information. Two duplicate copies of this paper are attached.

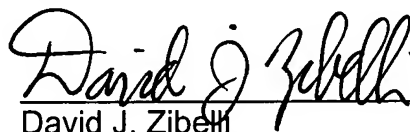
☒ a. I hereby certify that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 CFR §1.97(e)(1).

☐ b. I hereby certify that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 CFR §1.97(e)(2).

☒ 4. The references were cited in a counterpart foreign application. English language versions of the Official Action are attached for the Examiner's information.

Respectfully submitted,

KENYON & KENYON

A handwritten signature in black ink, appearing to read "David J. Zibell", written over a horizontal line.

David J. Zibell

Registration No. 36,394

Date: June 15, 2005

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Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

**Complete if Known**

Application Number	10/614,859
Filing Date	July 9, 2003
First Named Inventor	Yasuo INOUE
Art Unit	2182
Examiner Name	Alan CHEN
Attorney Docket Number	29284/598

Sheet  of **U.S. PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Document Number Number - Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		English Translation of Japanese Office Action No. 2003-156485, dated March 25, 2005 and Office Action of Japanese Patent Application No. 2003-156485	
		English Translation of Japanese Office Action No. 2003-156486, dated March 25, 2005 and Office Action of Japanese Patent Application No. 2003-156486	
		English Translation of Japanese Office Action No. 2003-189152, dated March 25, 2005 and Office Action of Japanese Patent Application No. 2003-189152	

**FOREIGN PATENT DOCUMENTS**

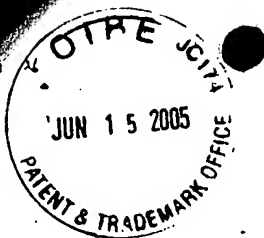
Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		JP-4219815	08-10-1992	Bull Sa		Abstract

Examiner  
SignatureDate  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Sheet 1 of 2

FORM PTO-1449  
INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT(S)

Atty Docket No.: 29284/ 598  
Serial No. :  
Applicants : Y. INOUE  
Filed :  
Group Art Unit :  
Examiner :

U.S. PATENT DOCUMENTS

Examiner Initial	Patent Number	Patent Date	Name	Class/ Subclass	Filing Date
ASC	4,021,784	05/1977	KIMLINGER	395/550	
ASC	4,394,732	7/1983	SWENSON	395/440	
ASC	4,467,414	08/21/84	AKAGI et al.	395/250	
ASC	4,723,223	02/02/88	HANADA	395/846	
ASC	4,792,898	12/20/88	MCCARTHY et al.	395/445	
ASC	4,920,478	04/24/90	FARUYA et al.	395/463	
ASC	4,996,641	02/26/91	TALGAM et al.	395/445	
ASC	5,019,971	05/28/91	LEFSKI et al.	395/250	
ASC	5,073,851	12/17/91	MASTERSON et al.	395/467	
ASC	5,123,099	02/16/92	SHIBATA et al.	395/447	
ASC	5,124,987	06/23/92	MILLIGAN et al.	395/182.05	
ASC	5,133,060	07/21/92	WEBER et al.	395/440	
ASC	5,142,627	8/1992	ELLIOT et al.	395/825	
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ASC	5,155,845	10/13/92	BEAL et al.	395/182.04	
ASC	5,175,842	12/29/92	TOTANI	395/488	
ASC	5,204,836	04/20/93	REED	371/10.2	
ASC	5,210,843	5/1993	AYERS	395/455	
ASC	5,228,135	07/13/93	IKUMI	395/458	
ASC	5,253,351	10/12/93	YAMAMOTO et al.	395/445	✓
ASC	5,257,359	10/26/93	BLASCO et al.	395/465	
ASC	5,269,019	12/1993	PETERSON et al.	395/600	
ASC	5,287,480	2/1994	WAHR	395/458	
ASC	5,325,488	06/28/94	CARTEAU et al.	395/275	
ASC	5,459,856	10/17/95	INOUE	395/440	
ASC	5,519,831	5/1996	HOLZHAMMER	395/182.2	

OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

Examiner  
Initial

1. A Multiport Page-Memory Architecture and a Multiport Disk-Cache System, New Generation Computing 2 (1984) 241-260, Ohmsha, Ltd. and Springer-Verlag.

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



**FORM PTO-1449**  
**INFORMATION DISCLOSURE**  
**STATEMENT BY APPLICANT(S)**

Atty Docket No. : 29284/598  
 Serial No. :  
 Inventors : Yasuo INOUE  
 Filed : 9 July 2003  
 Group Art Unit : 2182  
 Examiner :

**U.S. PATENT DOCUMENTS**

Examiner Initial	Patent Number	Patent Date	Name	Class/ Subclass	Filing Date
ASL	4,430,701	02-1984	CHRISTIAN et al.	711/119	
ASL	4,755,928	07-1988	JOHNSON et al.	364/200	
ASL	5,134,563	07-1992	TAYLER et al.	711/143	
ASL	5,274,790	12-1993	SUZUKI	711/133	
ASL	5,325,488	06/28/94	D. CARTEAU	395/275	
ASL	5,530,941	06-1996	WEISSER et al.	711/151	
ASL	5,689,729	11-1997	INOUE	395/872	

**FOREIGN PATENT DOCUMENTS**

Examiner Initial	Document Number	Date	Country	Class/ Subclass	Translation Yes No
	63-225848	09/20/88	Japan		ABS.
	445,479	07/26/95	EPO		X

**OTHER DOCUMENTS**

(Including Author, Title, Date, Pertinent Pages, Etc.)

Examiner  
Initial

1. Japanese Office Action of April 1, 2003 and partial translation.

EXAMINER

DATE CONSIDERED

Alan Glau

07/19/04

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.